



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## A. V. Cozer, Ltd.

Whereas, THERE HAS BEEN PRESENTED TO THE  
**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (84 Stat. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'Tania'



*In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 15th day of March in the year of our Lord one thousand nine hundred and seventy-nine*

Attest:

*[Signature]*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*[Signature]*  
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME  Tania	FOR OFFICIAL USE ONLY	
		PV NUMBER 7800026	
2. KIND NAME  Lettuce	3. GENUS AND SPECIES NAME  Lactuca sativa	FILING DATE 2-14-78	TIME 3:30 A.M. P.M.
		FEE RECEIVED \$ 250.00	DATE 2-14-78
4. FAMILY NAME (BOTANICAL)  Compositae	5. DATE OF DETERMINATION  16 December 1976	\$ 250.00	2-14-78
		\$ 250.00	12-18-78
6. NAME OF APPLICANT(S)  A.L.Tozer Ltd.,	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)  Pyports, Downside Bridge Road, Cobham, Surrey KT11 3EH, United Kingdom.	8. TELEPHONE AREA CODE AND NUMBER  09326-2059	
		9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)  Limited Company	
10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION  England		11. DATE OF INCORPORATION  1944	

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:  
Joseph Harris Company, Inc., Moreton Farm, Rochester, N.Y., 14624  
Telephone: 716-594-9411

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- 13B. Exhibit B, Novelty Statement.
- 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- 13D. Exhibit D, Additional Description of the Variety.

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.)  YES  NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations?  YES  NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed?  FOUNDATION  REGISTERED  CERTIFIED

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal?  YES  NO

16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

14 April 1977  
(DATE)

April 22 1977  
(DATE)

A. L. TOZER LTD.  
Peter R. Dawson  
JOSEPH HARRIS COMPANY, DIRECTOR: 1  
Joseph Harris  
(SIGNATURE OF APPLICANT)

## INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

## ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give (1), the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.
- 14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

## 13A. Exhibit A:

Origin and Breeding History of the Variety.

'Tania' is derived from a single plant selection, the seeds of which had a tan colour, from the F<sub>7</sub> generation of a cross between the butterhead variety 'Mildura' and a crisp-head line Imperial 45634-M originally from Dr. T.W. Whitaker, USDA, La Jolla, California via The National Vegetable Research Station, Wellesbourne, England made in 1961.

Sister selections from the F<sub>7</sub> generation gave rise to the white seeded variety 'Diana' which was released to growers in England in 1975 and is protected by a Grant of Plant Breeders' Rights No.965 dated 1974.

Both parents carry genes for resistance to various races of the downy mildew fungus Bremia lactucae. Therefore the F<sub>4</sub>, F<sub>5</sub>, F<sub>6</sub> and F<sub>7</sub> generations were tested with various isolates of the fungus and only resistant individuals were selected to go forward to the next generation.

The variety 'Tania' - like 'Diana' has four resistant genes for Bremia resistance R<sub>3</sub>, R<sub>4</sub>, R<sub>7</sub> and R<sub>8</sub> using the system of gene nomenclature put forward by Crute and Johnson.

(Crute I.R. and A. G. Johnson. The genetic relationship between races of Bremia lactucae and cultivars of Lactuca sativa. Ann. appl. Biol. (1976) 83; 125-137.)

Two further generations have taken place and 'Tania' appears stable and uniform for tan seed colour, mildew resistance and all other characters.

7800026

13B. Exhibit B:

Novelty Statement.

'Tania' is distinct from the variety 'Diana' which it most closely resembles in having seeds with brown seed coats whereas Diana is white seeded.

7/14 5/25/78



7800026

13D. Exhibit D:

Additional Description of the Variety, Tania.

'Tania' is a dark green butterhead lettuce, Lactuca sativa and has light brown or tan seed coat colour.

'Tania' is similar to Diana in plant growth characteristics but is quite different from Dark Green Boston.

'Tania' has large broad cotyledons with no anthocyanin and no anthocyanin develops on exposure to cool conditions. 'Tania' is slightly darker green than Dark Green Boston.

The leaves are slightly blistered and the surface profile of the outer leaves is fairly flat.

'Tania' makes a marketable head from two to four days earlier and is seven days later in bolting than Dark Green Boston. The plant size of 'Tania' is approximately 3-4 cm. larger and the head size approximately 8 cm. larger than Dark Green Boston.

At flowering there is a terminal button, otherwise no fasciation is present in the flowering shoot.

'Tania' like Diana has resistance to a number of races of Bremia lactucae while Dark Green Boston has no resistance.

## 16. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER		NAME OF VARIETY				
Leaf color		Dark Green Boston - Diana				
Leaf pigmentation		Dark Green Boston - Diana				
Leaf shape		Diana				
Plant size		Diana				
Head size		Diana				
VARIETY	NO. OF DAYS TO HEAD MATURITY UNDER WINTER CROPPING	LOCATION	NO. OF DAYS TO HEAD MATURITY UNDER SUMMER CROPPING	LOCATION	NO. OF DAYS TO SEED STALK EMERGENCE UNDER SUMMER CROPPING	LOCATION
Submitted			74	southern England	87	southern England
Similar			74	southern England	87	southern England
Name of similar variety	Diana					

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. C. M. Rodenburg, 1960, Varieties of Lettuce, An International Monograph, Institut voor de Veredeling van Tuinbouwgewassen, Wageningen, Holland.
2. L. L. Morse, 1930, Field Notes on Lettuce, published by Ferry-Morse Seed Co.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following lettuce varieties may be used as a guide to identify the eight colors listed on the form.

<u>Color</u>	<u>Variety</u>
Red	"Salad Trim"
Reddish-brown	"Ruby"
Yellow	"Salad Bowl"
Yellowish-green	"Oakleaf"
Greyish-green	"White Boston"
Bluish-green	"Bibb"
Dark-green	"Imperial" group
Very dark green	"Deer Tongue"

PLANT SIZE: The following varieties may be used as a guide to identify the plant type size:

TYPE	COMPARABLE VARIETIES		
	SMALL	MEDIUM	LARGE
Cutting (leaf)	Boston-Curled	Prize Head	Grand Rapids
Stalk (stem)	Celtuce	--	--
Cos	Express	Parris Island	Giant White
Crisphead	Mignonette	Hanson (Merit)	Climax
Butterhead	Tom Thumb	Big Boston	Mammoth Butter
Latin	Sucrine	Creole	Deer Tongue

2 PHOTOS IN  
BINDER

AKS 12-14-87



United States  
Department of  
Agriculture

Agricultural  
Research  
Service

Northern Plains Area  
National Seed  
Storage Laboratory

1111 South Mason Street  
Fort Collins, CO 80521-4500  
Telephone: 970 495-3200  
Fax: 970 221-1427

February 14, 1997

Marian R. Minnifield, Secretary  
Plant Variety Protection Office  
NAL Building, Room 500  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351

Subject: Expired PVPO's; disposition of

1. The following expired PVPO's have been transferred to the NPGS. Our records have been changed accordingly.

Serial Number		PVP Number
101862	01	PVP 7800029
102219	01	PVP 7800010
102675	01	PVP 7800088
102676	01	PVP 7400011
103506	01	PVP 7800084
103507	01	PVP 7900016
103508	01	PVP 7800082
103840	01	PVP 7900017
103842	01	PVP 7900067
104549	01	PVP 7700106
104551	01	PVP 7100046
314988	01	PVP 9500276
101863	01	PVP 7800026 ✓
102222	01	PVP 7800078
102226	01	PVP 7800091
101854	01	PVP 7200134
102214	01	PVP 7605014
102216	01	PVP 7900011
102217	01	PVP 7800095
102218	01	PVP 7800093
102220	01	PVP 7800097
102221	01	PVP 7800042

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USDA



United States  
Department of  
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Agricultural  
Research  
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Northern Plains Area  
National Seed  
Storage Laboratory

1111 South Mason Street  
Fort Collins, CO 80521-4500  
Telephone: 970 495-3200  
Fax: 970 221-1427

102673	01	PVP 7800059
103502	01	PVP 7800096
103503	01	PVP 7800074
103509	01	PVP 7900044
103510	01	PVP 7900047
103838	01	PVP 7500042
103843	01	PVP 7300101
101859	01	PVP 7200132
102227	01	PVP 7700085
103511	02	PVP 7800028
103839	01	PVP 7900049
103845	01	PVP 7900048
104548	02	PVP 7800057
104550	01	PVP 7800024

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USDA

Sincerely,

GENE KEYS  
Data Coordinator